

Formula of Invention

A circular plane saw, consisting of a steel saw blade (saw body), made of tool steel, with teeth groups made of steel, or having mono- and multilayer plates, soldering, build-up welds, coatings of hard-alloy and high-speed steels, synthetic ultra-hard materials, synthetic polycrystalline diamonds and borazon, high-strength cutting ceramics, including nitride ceramics, and/or of other hard and ultra-hard materials, positioned at the periphery; alternately positioned on the saw body, right and left planing/cutting teeth in the form of a disc part, having one plain lateral surface, which can be sharpened, and one radially convex lateral surface, which cannot be sharpened, and the chipper teeth with a straight chipper edge, which follow the group of planing/cutting teeth, of one or different standard size and thickness, positioned singly or in groups, with their front edges facing toward the working spin of the saw, or in both directions, and with the working edges, or all edges, sharpened, and with the thickness of the chipper teeth equal or less than that of the right and left planing/cutting teeth, *the saw being characterised in that* the right and left saw teeth, positioned alternately on the saw body, are made helically-shaped with the front chipper parts made in the form of a "classical" tooth's part and with the rear planing/cutting part in the form of a disc segment (part) with the height of the active area less than the radius of the given disc part, where the helically-shaped teeth are the only type of teeth, positioned on the saw body, and the front chipper and rear planing/cutting teeth parts are made of the same or different thickness with their tips positioned on the same or different circumferences (diameters) of the saw, and the rear planing/cutting parts of these teeth are made to be sharpened on either of the lateral sides, plain or radially convex sides, or on both lateral sides.

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Total additional fees required for this application is **\$130** for a Small Entity:

- **\$130** for English translation surcharge required.

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